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(71) Applicant: **NGK INSULATORS LTD**

(72) Inventor: **USAMI JUN**  
**NISHIWAKI MOTOSUKE**

**(54) METHOD FOR ESTIMATING SERVICE LIFE OF  
GAS ANALYZER**

**(57) Abstract:**

**PURPOSE:** To estimate a remaining service life of a sensor in a gas analyzer using the sensor having an electrochemical cell.

**CONSTITUTION:** Determination signals containing deterioration characteristics of change with time of a

sensor are sampled with appropriate time intervals, and a regression function approximately indicating a change with time of these determination signals is obtained. By calculating remaining time until the determination signal reaches a determined value as a preset sensor service life based on the regression function, the service life of the sensor is estimated.

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